

Applic. No.: 10/635,737
Amdt. Dated December 12, 2005
Reply to Office action of August 11, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claims 1-14 (cancelled).

Claim 15 (new). A method for recognizing a substrate stock within a printing unit, the method comprising the following steps:

providing at least one light sensitive sensor, the at least one light sensitive sensor being attached to the printing unit and being able to independently sense several partial ranges of light wavelengths;

providing a light-emitting light source, light emitted from the light-emitting light source being reflected by or transmitted through a surface and/or a substrate stock on the surface in the printing unit;

sensing several partial ranges of light wavelengths of the reflected or transmitted light with the at least one light sensitive sensor and measuring the luminosity of these ranges of light wavelengths; and

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comparing the luminosity values of the sensed partial ranges of light wavelengths with reference values and recognizing a substrate stock on the surface if compared values differ at least for one range of light wavelengths.

Claim 16 (new). The method according to claim 15, which further comprises assigning the several partial ranges of light wavelengths to the colors red, green, and blue.

Claim 17 (new). The method according to claim 15, which further comprises automatically assigning the measured luminosity of the several partial ranges of light wavelengths a color value within a color area, and comparing the color value with a reference color value and recognizing a substrate stock if the compared color value differs.

Claim 18 (new). The method according to claim 17, which further comprises ascertaining the reference color value by the sensor through a measurement of the light reflected by or transmitted through the surface on which the substrate stock is to be recognized.

Claim 19 (new). The method according to claim 17, which further comprises determining a deviation of the assigned

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color value from the reference value and recognizing a substrate stock if the deviation exceeds a previously determined threshold value.

Claim 20 (new). The method according to claim 19, which further comprises stopping at least an affected area of the printing unit and/or triggering an alarm whenever the deviation exceeds the previously determined threshold value.

Claim 21 (new). A device for recognizing a substrate stock on a surface in a printing unit, the device comprising:

at least one light sensitive sensor, said at least one light sensitive sensor being attached to the printing unit for independently sensing several partial ranges of light wavelengths;

a light-emitting light source, light emitted from said light-emitting light source being reflected by or transmitted through a surface and/or a substrate stock on said surface in the printing unit;

a device for comparing a luminosity value of at least one range out of several ranges of light wavelengths with a reference value and recognizing said substrate stock on said

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surface if compared values differ at least for one range of light wavelengths; and

a device for triggering an alarm and/or stopping at least an affected area of the printing unit if a substrate stock is recognized on said surface, said surface showing a color value deviating from all colors that the printing unit can produce with printing inks.

Claim 22 (new). The device according to claim 21, wherein said surface on which said substrate stock is to be recognized is outside a conveyance sequence for said substrate stock.